



Item No. 12 D

TOWN OF LAUDERDALE-BY-THE-SEA

AGENDA ITEM REQUEST FORM

Assistant Town Manager

Department Submitting Request

John Olinzock

Dept Head's Signature

<u>Commission Meeting Dates</u>	<u>Last date to turn in to Town Clerk's Office</u>	<u>Commission Meeting Dates</u>	<u>Last date to turn in to Town Clerk's Office</u>	<u>Commission Meeting Dates</u>	<u>Last date to turn in to Town Clerk's Office</u>
<input type="checkbox"/> Nov 10, 2009	Oct. 30 (5:00 p.m.)	<input type="checkbox"/> Jan 26, 2010	Jan 15 (5:00 p.m.)	<input checked="" type="checkbox"/> March 23, 2010	Mar 12 (5:00 p.m.)
<input type="checkbox"/> Dec 1, 2009	Nov 20 (5:00 p.m.)	<input type="checkbox"/> Feb 9, 2010	Jan 29 (5:00 p.m.)	<input type="checkbox"/> April 13, 2010	April 2 (5:00p.m.)
<input type="checkbox"/> Dec 8, 2009	Nov 25 (5:00 p.m.)	<input type="checkbox"/> Feb 23, 2010	Feb 12 (5:00 p.m.)	<input type="checkbox"/> April 27, 2010	April 16 (5:00p.m.)
<input type="checkbox"/> Jan 12, 2010	Dec 31 (5:00 p.m.)	<input type="checkbox"/> Mar 4, 2010	Feb 19 (5:00p.m.)	<input type="checkbox"/> May 11, 2010	April 30 (5:00p.m.)

NATURE OF AGENDA ITEM

- | | | |
|--|---|--|
| <input type="checkbox"/> Presentation | <input type="checkbox"/> Resolution | <input type="checkbox"/> New Business |
| <input type="checkbox"/> Report | <input type="checkbox"/> Ordinance | <input type="checkbox"/> Manager's Report |
| <input checked="" type="checkbox"/> Consent Agenda | <input type="checkbox"/> Public Hearing | <input type="checkbox"/> Attorney's Report |
| <input type="checkbox"/> Bids | <input type="checkbox"/> Old Business | <input type="checkbox"/> Other |

EXPLANATION: Jarvis Hall Interior Lighting Replacement

STAFF RECOMMENDATION: N/A

BOARD/COMMITTEE RECOMMENDATION: N/A

FISCAL IMPACT AND APPROPRIATION OF FUNDS: TBD

- | | |
|---|--|
| <input type="checkbox"/> Amount | <input type="checkbox"/> Acct # |
| <input type="checkbox"/> Transfer of funds required | <input type="checkbox"/> From Acct # _____ |
| <input type="checkbox"/> Bid | <input type="checkbox"/> Grant <input type="checkbox"/> Amount represents matching funds |

Town Attorney review required

☐ Yes ☒ No

Town Manager's Initials: JO

Memo

Date: 3/11/2010

To: Esther Colon, Town Manager

From: Don Prince, Director of Municipal Services

Re: Jarvis Hall Lighting

Please see attached quotes for Jarvis Hall Lighting. Al Siefert Electric has submitted the lowest bid They are to supply and install (10) T8 Lamp Fluorescent lay in fixtures with a dual blast using existing power.

<u>Bidder</u>	<u>Price</u>
Al Siefert Electrical ✓	\$ 1,863.43
Mr. Electric & Associates, Inc.	\$ 2,460.00
Imperial Electrical, Inc.	\$ 2,568.00

Thank You

Don Prince/tw

Purchase Order - 18th.

2. All procurements of goods and/or services, as well as award of contracts and related change orders, that do not exceed fifteen thousand dollars (\$15,000) must be approved as follows:
 - a. Procurements not exceeding one thousand dollars (\$1,000) must be approved by the director of the LBTS department whose budget will be charged for the expenditure provided;
 - i. the LBTS department director may delegate the authority to procure supplies not in excess of \$50 to subordinates approved in advance by the Town Manager,
 - ii. a minimum of three (3) informal quotations are obtained as described in Section III. C. below for each procurement between five hundred (\$500) and one thousand dollars (\$1,000).
 - b. Procurements over one thousand dollars (\$1,000) but less than five thousand dollars (\$5,000) must be approved by the LBTS Purchasing Administrator designated in advance by the Town Manager after written quotes are obtained from a minimum of three (3) vendors.
 - c. Procurements between five thousand dollars (\$5,000) and fifteen thousand dollars (\$15,000) must be approved by the Town Manager after written quotes are obtained from a minimum of three (3) vendors.
 - d. For any procurements individual, group of, or all procurements described in Section III. B.2., the Town Manager has the discretion to impose additional purchasing requirements. The additional purchasing requirements that the Town Manager may impose include, but are not limited to, the use of formal bidding, the appointment of a bid specification/selection committee, or the assignment of any individual to assist with any purchase.
 - e. Expenditures may be made from the petty cash fund providing that payments do not exceed \$50 for any one purchase. Petty Cash funds should be used to avoid the time and expense of issuing purchase orders for items totaling fifty dollars (\$50) or less.

To: Don 02-003



DATE: 2/1/10

TOWN OF LAUDERDALE-BY-THE-SEA
4501 Ocean Drive
Lauderdale-By-The-Sea, FL 33308-3601
Phone: 954-776-0576 Fax: 954-776-0578

CITIZEN CONTACT CENTER FORM

Citizen Name:	Mayer Minnet
Address Line 1:	
Address Line 2:	
Phone:	C: 954-326-0594

Issue:

Re: Lighting in Jarvis Hall
(very dim + dark)

Action Requested:

Please check to see
if they are all working.
New bulbs installed/Replaced

02-02-10A08:52 RCVD

phone msg. →

02-11-10 A11:43 OUT

Proposals Received

PROPOSAL
Al Siefert Electric
2319 SE 10th Street
Pompano Beach, FL 33062-7006

License #EC0002423**Phone: (954) 493-9411****Fax: (954) 493-8855****PROPOSAL SUBMITTED TO:****Town of Lauderdale-By-The-Sea**
Attn: Don Prince**PHONE:****954-776-0576****DATE:****03-10-10****STREET:****4501 N. Ocean Drive****JOB NAME:****Town of Lauderdale-By-The-Sea****CITY, STATE AND ZIP CODE:****Lauderdale-By-The-Sea, FL 33308****JOB LOCATION:****4501 N. Ocean Drive - LBTS****ARCHITECT:****DATE OF PLANS:****JOB PHONE:**

We hereby submit specifications and estimates for the following electrical installation:

Supply and install ten (10) 2x4 4-lamp TB fluorescent lay-in fixtures with dual ballast using existing power.

The work above is to be done during normal business hours Monday through Friday.

The permit fees and charges for any electrical calculations, if required by the City, are not included since these are unknown amounts and need to be billed separately.

It is the responsibility of the owner to make the premises available for all inspections.

No other discounts or coupons apply.

We Propose hereby to furnish Material and Labor – Complete in accordance with above specifications, for the sum of:

One thousand eight hundred sixty three and ----- 43/100 dollar (\$1,863.43).

Payment to be made as follows:

Due in Full upon Completion.

TERMS AND CONDITIONS: The terms and conditions on the reverse side of this document are expressly incorporated in to this Agreement.

All material is guaranteed to be as specified. All work to be completed in a workmanlike manner according to standard practices. Any alteration or deviation from above specifications involving extra costs will be executed only upon written orders, and will become extra charge over and above the estimate. All agreements contingent upon strikes, accidents or delays beyond our control. Owner to carry fire, tornado, and other necessary insurance. Our workers are fully covered by Workers Compensation Insurance.

Authorized Signature

Al Siefert **FOR AL SIEFERT**

NOTE: This proposal may be withdrawn by us if not accepted within 30 days.

ACCEPTANCE OF PROPOSAL – The above prices, specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified. Payment will be made as outlined above.

Signature attests Customer's acknowledgement of his/her responsibility to make job site available for necessary inspections by the Building Department. Service of Notice to Owner in accordance to Section 713.06

Florida Statutes is hereby acknowledged.

Authorized Signature _____

Additional Proposal/Agreement Provisions on Reverse

Mr. Electric & Associates Inc.

4053 Peters Road
Plantation, FL 33317
Phone: 954/792-8710
Fax: 954/792-5710
Email: Jason@mrelec.com
STATE LICENSE NO. EC 0000724

PROPOSAL/CONTRACT

Proposal Submitted to:

Town of Lauderdale By The Sea
4501 Ocean Drive
Lauderdale By The Sea, FL 33308
Attn: Don / Mike

Description of Job:

Re-Lighting
Phone: 954-776-0576
Fax: 954-776-0094
March 5, 2010

Mr. Electric proposes to provide plans suitable for permit. Provide permit labor and material to disconnect and remove the existing (10) 60W light fixtures in the ceiling of the commission chamber. Utilize existing circuitry and add (3) single switches to control the new lighting. Provide and install (18) 2 x 4 lay in fixtures. I am uncertain of the fixture type required so I provided a cut sheet of three different styles of fixtures for your review. I did not include new fixtures at the council members desk, I assumed you were going to keep the track with the LED heads.

All work will be performed according to the National Electrical Code and the Florida Building Codes. Please note the following items:

1. I assume the city will waive the permit fee.
2. I assume the city will provide and record the Notice of Commencement.
2. All work completed during normal business hours.

BASE BID Using Acrylic Lay In Fixtures - \$ 4,440.00
BASE BID Using Parabolic Lay In Fixtures - \$ 4,800.00
BASE BID Using Soft Trace Lay In Fixtures - \$6,160.00

All material is guaranteed to be as specified. All work is to be completed in a workmanlike manner according to standard practices. Any alterations or deviations from the above specifications involving extra costs will be executed only upon written orders and will become an extra charge over and above the selling price.

Authorized Signature: Ken J. Kotrady
Ken J. Kotrady, President

PROPOSAL CONTACT/MR. ELECTRIC

TERMS AND CONDITIONS OF THIS CONTRACT

It is expressly understood and agreed that the title to the equipment and material used in this agreement and provided by the Seller is retained by SELLER and same shall not pass or become vested in the PURCHASER until the entire purchase price has been paid. Said equipment and materials shall be and remain personal property and retain its character as such, and PURCHASER shall not attach or affix said property to any realty so that it loses its character as personal property. The purchase price shall be due and payable as provided under "TERMS" above, and upon the failure of the purchaser to make any payment on the due date to the SELLER, the SELLER may declare the entire balance of the purchase price due and payable. In case of default, PURCHASER shall pay all costs and damages, including repossessing the described equipment and materials, or foreclosing upon any Mechanic's Liens placed upon the real property, whether suit be brought or not. The SELLER will be entitled to interest on the unpaid balance at 18% per year 1 1/2% per month calculated 30 days from the invoice date. PURCHASER hereby waived presentments, demand, and all other prerequisites required to make liable. No warranties, representations, or promises, not appearing in writing in this contract will be recognized. This agreement shall not be considered executed or binding to the SELLER until accepted by an authorized officer of the SELLER. All agreements are contingent upon strikes, accidents, acts of God, or delay of any kind unavoidable or beyond our control.

SELLER is responsible to PURCHASER only for the installation and materials contained herein.

Having read the foregoing PROSOSAL/CONTRACT, I hereby indicate my acceptance of the conditions and terms set forth by signing in the space provided below.

ACCEPTED BY:

PURCHASER OR NAME OF COMPANY

BY: _____
SIGNATURE/TITLE

DATE: _____

(Please Print Name)

APPROVED BY:

MR. ELECTRIC

BY: _____
President

DATE: _____

KEN J. KOTRADY
Please Print Name

PROPOSAL

IMPERIAL ELECTRICAL INC,

11821 NW 11 STREET-PLANTATION, FL 33323

SINCE 1969

(954)325-2133

FAX (954)938-0530

Submitted To		Project Location	
Name	Lauderdale By The Sea	Name	Counsel Chambers
Street		Street	
City/State		City/State	
Tele Num.		Plans Date	
Date	2/19/2010		

We hereby propose to furnish the following materials and perform the labor necessary for the completion of:

Replace existing incandescent fixtures with energy efficient T-8 flouresent fixtures

PRICE INCLUDES:

Remove 20 fixtures

Install 10 new 2x4 flouresent 4 lamp T-8 lamps

Dual Ballast Fixtures	Material		\$ 1,020.00
Wire and conduit	Mark-up	15%	\$ 153.00
Permit	Permit fees		\$ 100.00

DOES NOT INCLUDE

FPL or Bell South charges

Patch

Overtime wages

Existing code violation repairs

Labor 37 hrs \$ 1,295.00

All materials guaranteed to be specified, and the above work to be performed in accordance with the drawings and specifications submitted for above work completed in a substantial workmanlike manner for the sum of:

TOTAL QUOTE \$ 2,568.00

Respectfully submitted _____
IMPERIAL ELECTRICAL INC.

Any alteration or deviation from the above specifications involving extra costs will be executed only upon written order and will become an extra charge over and above the estimate. All agreements contingent upon strikes accidents or delays beyond our control. Owner to carry fire, wind, storm and other necessary insurance upon above work.

Note: This proposal may be withdrawn by us if not accepted within _____ days.

ACCEPTANCE OF PROPOSAL

The above prices, specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified. Payments will be made as outlined above.

Date _____ Signature _____

Mr. Electric & Associates Inc.

4063 Peters Road
Plantation, FL 33317
Phone: 954/792-8710
Fax: 954/792-5710
Email: Jason@mrelec.com
STATE LICENSE NO. EC 0000724

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Authorized Signature: Ken J. Kotrady
Ken J. Kotrady, President

Only 10 fixtures needed.

$4440 \times 18 = \$246$

$\$246 \times 10 = \$2,460$

PROPOSAL CONTACT/MR. ELECTRIC

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SELLER is responsible to PURCHASER only for the installation and materials contained herein.

Having read the foregoing PROSOSAL/CONTRACT, I hereby indicate my acceptance of the conditions and terms set forth by signing in the space provided below.

ACCEPTED BY:

PURCHASER OR NAME OF COMPANY

BY: _____

SIGNATURE/TITLE

DATE: _____

(Please Print Name)

APPROVED BY:

MR. ELECTRIC

BY: _____

President

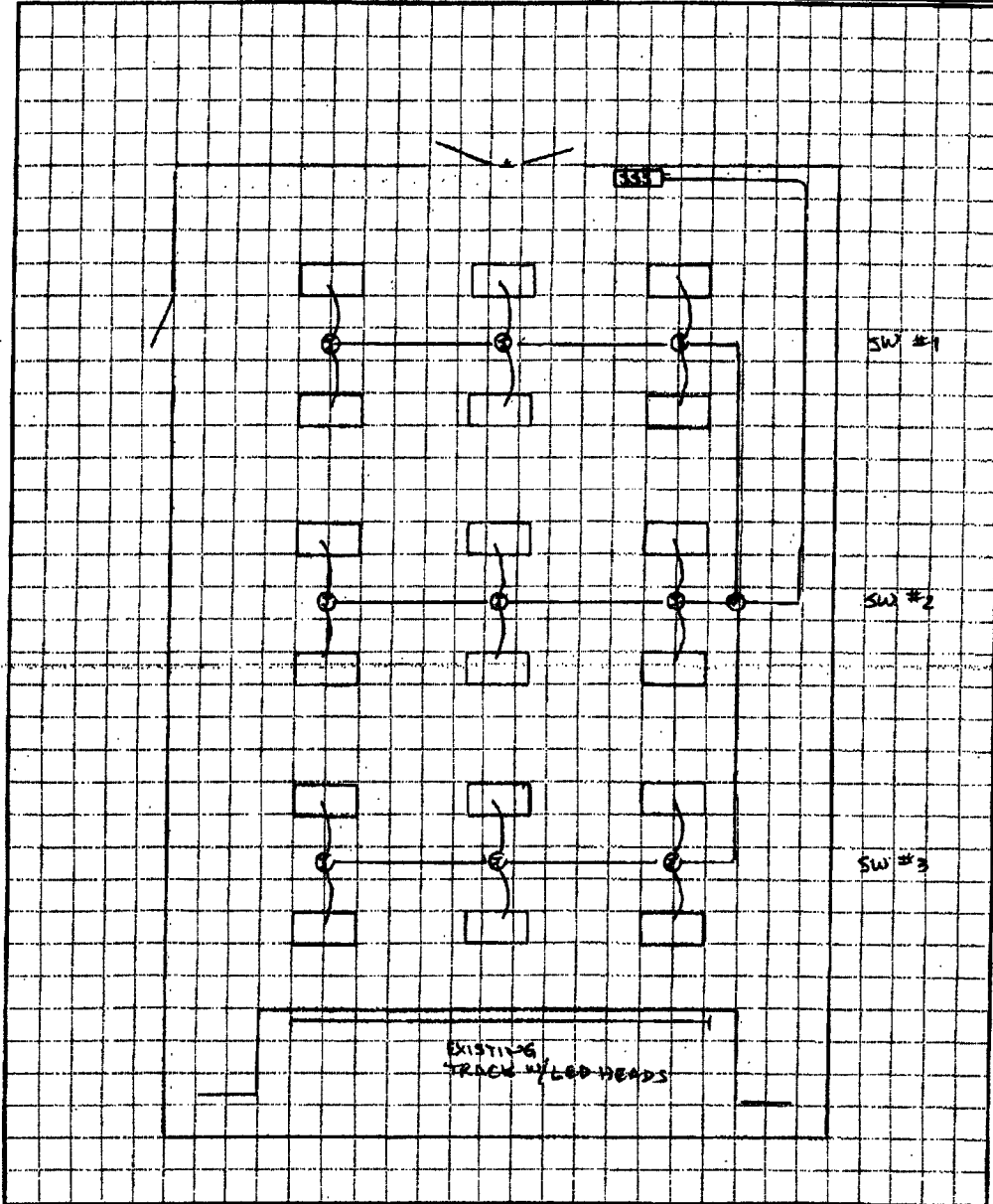
DATE: _____

KEN J. KOTRADY
Please Print Name

Mr. Electric
 4053 Peters Road
 PLANTATION, FLORIDA 33317
 (954) 792-6710 • (954) 792-5710

NO. LAUDERDALE BY THE SEA
COMMISSIONER CHAMBER
MEETING ROOM

SCALE _____



FIXTURE TYPE 1

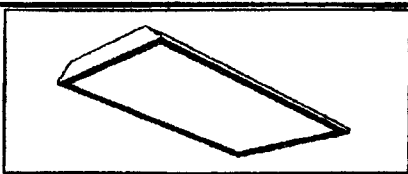
C Day-Brite® Lighting

2' x 4' TG8

2, 3, or 4 Lamp

T8

Prismatic Acrylic Lens



CONSTRUCTION/FINISH

- A quality low-profile troffer with specification features for NEMA "G" grid, NEMA "NFG" narrow face grid, NEMA "GG" grid regressed, NEMA "NFGS" narrow faced solid grid, or NEMA "F" flange ceiling types.
- Designed around T8 lamps.
- 3" nominal housing depth, 3-3/16" maximum depth.
- Smooth rolled edges on all four sides for easy handling.
- Die-formed one piece housing includes stiffening embosses and provides increased rigidity.
- Housing is multi-stage phosphate treated for maximum corrosion resistance and finish coat is high resistance baked white enamel.
- Lamp pin openings in housing ends for easier relamping (can be relamped without using openings).
- Integral ballast system to prevent light leaks.
- 2 sets of integral grid clips (unwound and fold out) for maximum mounting flexibility.
- Integral wire hanger holes for independent wire suspension.
- Embosses with holes provided in housing end for screwing to T-bar if desired.
- On T8 models, a single lamp can be changed without disturbing other lamps or wiring cover.
- 7/8" K.O.'s provided in each end cap for through wiring.

- Factory installed access plate in housing top includes 7/8" hole with rolled edge and 7/8" K.O.
- Carton includes integral carrying handle for easy handling.

ELECTRICAL

- Class P, HPF ballasts comply with @ Federal Ballast Law (Public Law 100-367, 1988).
- UL listed, suitable for damp locations. Canadian certified optional.
- Self-contained fluorescent emergency power packs can be incorporated, UL listed for dry locations.
- Rotating ring locking lampholder is standard for secure and positive retention of lamps.

ENCLOSURES

- Full "C" channel door frames for improved lane support and reduced shipping damage.
- Flat steel door frame features smooth rolled edges inside and outside.
- All door frames have mitered corners.
- All door frames use T-hinges and can be hinged and latched from either side.
- Opposable spring loaded latches are standard for easy operation and consistent retention.

CATALOG NUMBER[illegible]**NOTES:**

- With generic Electronic Ballasts (Brand selected by Day-Brite)
Sulfur Catalog # with Ballast Assembly = / - 500 Lamp Per Ballast.

Example: -1/2-23 = One 2 Lamp Electronic Ballast.

Example: -1/2-1/2 = One 3 Lamp Electronic Ballast.

Example: -1001-00 = One 2 Large Electronic Ballast and One 1 Large Electronic Ballast

Example - 1/4-20 - One 4 Lamp Electronic Ballast

Examples - 22-52 - Two 2 Large Electronic Ballasts

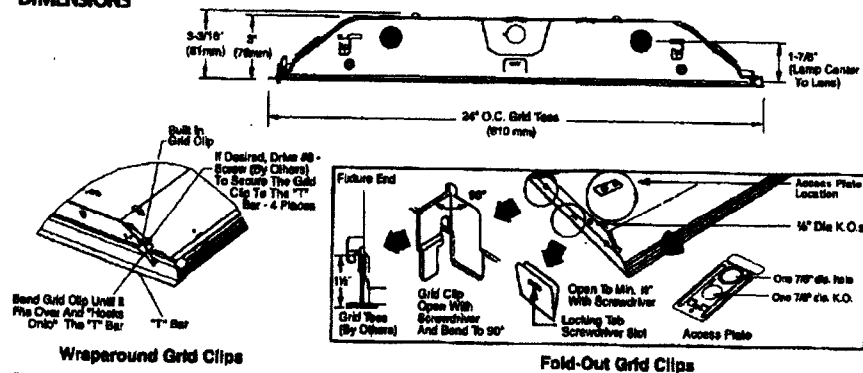
JOB INFORMATION

425.3-SR

JOB NAME:

TYPE:

DIMENSIONS



LER = FL-74

COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = \$0.04 BASED ON 3000 HRS. AND \$0.08 PER KWH

LIGHT DISTRIBUTION			
DEPT	CHAMBER	% LAMP	% FILLING
0-50	1070	26.8	26.8
0-60	8625	42.7	42.6
0-80	1147	72.5	72.5
0-90	4000	87.1	100.0

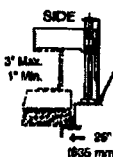
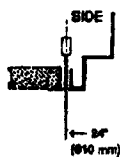
LLF-0.35 LLF-LIGHT LOSS FACTOR LLT-100 KILDX 1/2 LDP-VERY CLEAN DRY CLEAN 0.50
 LLD-0.07 @ 0.000 INCHES LAMP LIFE LF-0.00 ELECTRIC BALLAST & T-5 LAMP 10.0 AMP AT 270V LAMP LIFE

2 T G 8 2 32

CEILING TYPE

3 - COPY (MEMO 3)

F = FLANGE (NEMA F)



(NEMA Type G)
Lay-in acoustical ceilings
using exposed grid suspen-
sion, with ties for fixtures on
24" x 48" spacing.

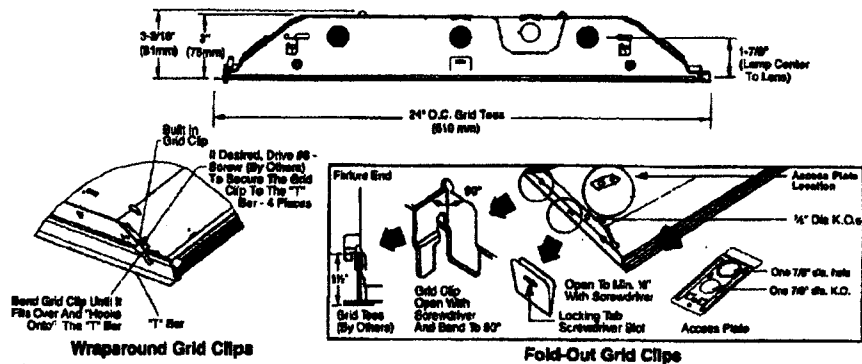
(NEMA Type F)
Flange for acoustical ceilings
using concealed mechanical sus-
pension. Spring-jack mounting
brackets; adjustment 3" max. and
1" min. Refer to sheet: 601-CL for
cut-out information.

425.3-SR



2' x 4' 3 LAMP

DIMENSIONS



PHOTOMETRIC DATA

MODEL # ZTSR32-01-16-65
TEST #22021

LAMP - F32T8

BALLAST - ELECTRONIC
BALLAST FACTOR - .85

LEN = FL-76

COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = \$6.10 BASED ON 3000 HRS. AND \$0.06 PER KWH.

FIXTURE EFFICIENCY = 84.5%

CANDLEPOWER				
Angle	0°	15°	30°	45°
0	2700	2700	2700	2700
15	2700	2700	2700	2700
30	2700	2700	2700	2700
45	2700	2700	2700	2700
60	2700	2700	2700	2700
75	2700	2700	2700	2700
90	2700	2700	2700	2700
105	2700	2700	2700	2700
120	2700	2700	2700	2700
135	2700	2700	2700	2700
150	2700	2700	2700	2700
165	2700	2700	2700	2700
180	2700	2700	2700	2700

MAINTAINED ILLUMINATION TABLE - Square Feet/Fixture*				
* 80-90-100 footcandle (Candle-Hot-Foot)				
* L.F. = 875, 2000 Lumens/Lamp, 100' C.M.H.				
* Room width divided by room height = 5 or more, 2 or 1				
Room Size	Room Height	10' x 10'	10' x 12'	12' x 12'
1-Lamp	8	1	1	1
1-Lamp	10	1	1	1

*Based on fixture with requirements for 2-year applications

AVERAGE LUMENANCE			
Room	Room Height	10' x 10'	10' x 12'
45	8	2100	2100
60	10	2100	2100
75	12	2100	2100
90	15	2100	2100
105	18	2100	2100
120	21	2100	2100
135	24	2100	2100
150	27	2100	2100
165	30	2100	2100
180	33	2100	2100

TYPICAL U.S.P.'s			
Room	Room Height	10' x 10'	10' x 12'
45	8	2100	2100
60	10	2100	2100
75	12	2100	2100
90	15	2100	2100
105	18	2100	2100
120	21	2100	2100
135	24	2100	2100
150	27	2100	2100
165	30	2100	2100
180	33	2100	2100

COEFFICIENT OF UTILIZATION				
Room	Room Height	10' x 10'	10' x 12'	12' x 12'
45	8	1	1	1
60	10	1	1	1
75	12	1	1	1
90	15	1	1	1
105	18	1	1	1
120	21	1	1	1
135	24	1	1	1
150	27	1	1	1
165	30	1	1	1
180	33	1	1	1

LIGHT DISTRIBUTION			
Room	Room Height	10' x 10'	10' x 12'
45	8	2100	2100
60	10	2100	2100
75	12	2100	2100
90	15	2100	2100
105	18	2100	2100
120	21	2100	2100
135	24	2100	2100
150	27	2100	2100
165	30	2100	2100
180	33	2100	2100

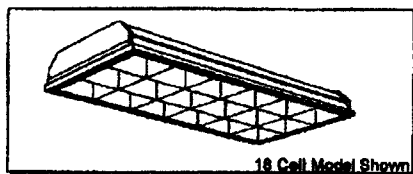
U.S.P. = U.S. L.F. = L.F. TYPE FACTOR L.F. = L.F. TYPE FACTOR L.F. = L.F. TYPE FACTOR L.F. = L.F. TYPE FACTOR
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425.3-SR

FIXTURE TYPE 2

C Day-Brite Lighting

2' x 4' LP3 PARALOUVER



3 Lamp T8
18 or 24 Cell

APPLICATION

- Low-brightness troffer for most ceilings:
 - Grid inverted T (NEMA "G")
 - Flange-type for concealed mechanical suspension (NEMA "F")
 - Modular and "Z" spline (NEMA "MZ")
- Designed for air supply/return through side slots and/or heat transfer. Select the appropriate catalog no. for air function desired. Air pattern control blades in side slots must be ordered as an option. Air boots by others.
- Excellent visual comfort and inconspicuous appearance.

CONSTRUCTION/FINISH

- Housing is multi-stage phosphate treated for maximum corrosion resistance and finish coat is high reflectance baked white enamel.
- Flat black finish inside perimeter reveal for "floating door" appearance.
- Built in (UL listed, patented) grid clips designed for use with standard 1-1/2" high grid ceiling members.
- Standard wireway cover is designed to accommodate small can ballasts. Use of emergency ballasts or specification of ballasts other than generic ballasts may require the use of a larger wireway cover.
- "Deep" wireway cover may be specified when ordering.
- One wireway cover standard, two optional.

ELECTRICAL

- Class P, HPF ballasts comply with Federal Ballast Law (Public Law 100-367, 1988).
- UL listed for damp locations. Canadian certified optional.
- Self-contained fluorescent emergency power packs can be incorporated, UL listed for dry locations. Bodine LP series emergency ballasts are recommended for use with the standard wireway cover. DEB series emergency ballasts may be used with the larger wireway cover.

ENCLOSURES

- Parabolic-shaped louvers closely controlled for uniform low-brightness appearance, and interlocked to avoid vibration.
- Choice of semi-specular (AL) or specular (FL) low incidence anodized aluminum, or white (W) louver finishes.
- 18 Cell: Lengthwise shielding is 19°. Crosswise shielding is 36°.
- 24 Cell: Lengthwise shielding is 25°. Crosswise shielding is 36°.
- Bottom aluminum flange has mitered corners and fits flush with ceiling.
- Can be hinged and latched from either side.
- Shipped with plastic film to keep out construction dirt.
- Guide-post spring loaded latches standard.

CATALOG NUMBER

2 LP3 G S 3 32 - 36 AL - UNV - F1-LPT830H

2 - 2' x 4' (not included)
LP3 - LP3 Paralouver
G - Flange
S - Spline
3 - 32 x 36 (not included)
32 - 32 x 36 (not included)
36 - 36 x 36 (not included)
AL - Semi-specular Low Incidence Anodized Aluminum
UNV - Universal voltage, 120-277 volt
F1-LPT830H - 18 Cell Model

NOTES:
• With generic Electronic Ballasts (brand selected by Day-Brite)
Seller Catalog # with - Ballast Required - / - - - - - Lamp(s) For Ballast.

Examples: -122-30 = One 2 Lamp Electronic Ballast.
-122-30 = One 2 Lamp Electronic Ballast and One 1 Lamp Electronic Ballast.

AL - Semi-specular Low Incidence Anodized Aluminum
FL - Full Specular Low Incidence Anodized Aluminum
W - Painted White

UNV - 2 wireway covers
APC - Adjustable Air Pattern Control Blades
ARB - Air Boot Covers
DWC - Deep wireway cover(s)

See Section 1600-0A for Option Info.

JOB INFORMATION

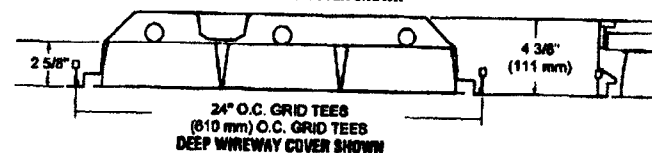
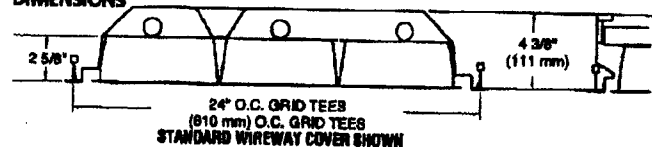
253.2-PLV

Job Name:
Type:

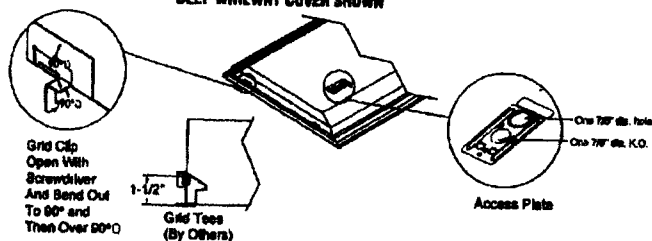
2' x 4' 3 LAMP LP3 PARALOUVER

Day-Brite Lighting

DIMENSIONS

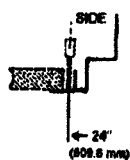


- Optional Air Pattern Control
(on Air and Combination Units)
- Fully adjustable
 - Closed- Static
 - 45°- Horizontal Air Supply
 - 90°- (fully open) - Vertical Air Supply
 - Side Slots may also be used for Return Air to Plenum
 - Snap-In Air Slot Covers (ASC) also available



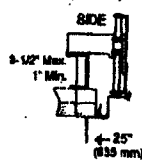
2 LP3 G S 3 32
CELLING TYPE

G = GRID (NEMA B)



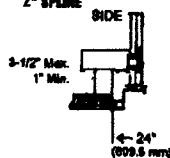
(NEMA Type G)
Lay-in acoustical ceilings using exposed grid suspension, with tees for fixtures on 24" x 48" spacing.

F = FLANGE (NEMA F)



(NEMA Type F)
Flange for acoustical ceilings using concealed mechanical suspension. Swing-jack mounting brackets adjustment 3-1/2" max. and 1" min. Refer to sheet 801-CL for cut-out information.

Z = (NEMA M/Z) MODULAR AND "Z" SPLINE



(NEMA M/Z)
Modular and "Z" Spline using concealed mechanical suspension. Swing-jack mounting brackets adjustment 3-1/2" max. and 1" min.

FOR PHOTOMETRIC TESTS ON WHITE LOUVERS ASK FOR TEST #'S:

18 CELL - 20634
24 CELL - 28840

NVLAP

The photometric results were obtained in the Day-Brite Lighting Laboratory which is NVLAP accredited by the National Institute of Standards and Technology.

253.2-PLV



PHOTOMETRIC DATA

CATALOG # 2 PGS 12-951-1/4 FEB 1992 - 502 TO

NUMBER OF PAGES = 80

LER = FA-63

COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = \$9.01 BASED ON 1000 HRS. AND \$0.09 PER KWH.

FEATURE EFFICIENCY= 75.7%

CABLEPOWER				
Angle	End	40	Green	
10	2812	2810	2810	2810
20	2812	2810	2810	2810
30	2812	2810	2810	2810
40	2812	2810	2810	2810
50	2812	2810	2810	2810
60	2812	2810	2810	2810
70	2812	2810	2810	2810
80	2812	2810	2810	2810
90	2812	2810	2810	2810
100	2812	2810	2810	2810
110	2812	2810	2810	2810
120	2812	2810	2810	2810
130	2812	2810	2810	2810
140	2812	2810	2810	2810
150	2812	2810	2810	2810
160	2812	2810	2810	2810
170	2812	2810	2810	2810
180	2812	2810	2810	2810
190	2812	2810	2810	2810
200	2812	2810	2810	2810
210	2812	2810	2810	2810
220	2812	2810	2810	2810
230	2812	2810	2810	2810
240	2812	2810	2810	2810
250	2812	2810	2810	2810
260	2812	2810	2810	2810
270	2812	2810	2810	2810
280	2812	2810	2810	2810
290	2812	2810	2810	2810
300	2812	2810	2810	2810
310	2812	2810	2810	2810
320	2812	2810	2810	2810
330	2812	2810	2810	2810
340	2812	2810	2810	2810
350	2812	2810	2810	2810
360	2812	2810	2810	2810

MANTAINED ILLUMINATION TABLE - Square Foot/Candle*

* 100-10-50 Illumination (Coping-High-Floor)
* L.F. = 176 2550 Lumens/Lamp - very close
as Rosen states defined by room height = 8 ft approx. 2 in 1

Number of Lamps	Room Height - ft	Approx. Area Sq. Ft per Fixture				
		10-10-50	10-10-50	10-10-50	10-10-50	
5 Lamp	5	-	-	105	75	52
	8	-	120	84	56	37
	1	-	50	34	24	16

* Approx. Area Sq. Ft per Fixture

JOB NO.	MONTHS									
	70	71	72	73	74	75	76	77	78	79
1	80	81	82	83	84	85	86	87	88	89
2	90	91	92	93	94	95	96	97	98	99
3	100	101	102	103	104	105	106	107	108	109
4	110	111	112	113	114	115	116	117	118	119
5	120	121	122	123	124	125	126	127	128	129
6	130	131	132	133	134	135	136	137	138	139
7	140	141	142	143	144	145	146	147	148	149
8	150	151	152	153	154	155	156	157	158	159
9	160	161	162	163	164	165	166	167	168	169
10	170	171	172	173	174	175	176	177	178	179
11	180	181	182	183	184	185	186	187	188	189
12	190	191	192	193	194	195	196	197	198	199
13	200	201	202	203	204	205	206	207	208	209
14	210	211	212	213	214	215	216	217	218	219
15	220	221	222	223	224	225	226	227	228	229
16	230	231	232	233	234	235	236	237	238	239
17	240	241	242	243	244	245	246	247	248	249
18	250	251	252	253	254	255	256	257	258	259
19	260	261	262	263	264	265	266	267	268	269
20	270	271	272	273	274	275	276	277	278	279
21	280	281	282	283	284	285	286	287	288	289
22	290	291	292	293	294	295	296	297	298	299
23	300	301	302	303	304	305	306	307	308	309
24	310	311	312	313	314	315	316	317	318	319
25	320	321	322	323	324	325	326	327	328	329
26	330	331	332	333	334	335	336	337	338	339
27	340	341	342	343	344	345	346	347	348	349
28	350	351	352	353	354	355	356	357	358	359
29	360	361	362	363	364	365	366	367	368	369
30	370	371	372	373	374	375	376	377	378	379
31	380	381	382	383	384	385	386	387	388	389
32	390	391	392	393	394	395	396	397	398	399
33	400	401	402	403	404	405	406	407	408	409
34	410	411	412	413	414	415	416	417	418	419
35	420	421	422	423	424	425	426	427	428	429
36	430	431	432	433	434	435	436	437	438	439
37	440	441	442	443	444	445	446	447	448	449
38	450	451	452	453	454	455	456	457	458	

**AVERAGE LUMINANCE
COWLIN
WITH 2000 LUMEN LAMPS**

Form Size	Mixing Height			
	Lengthwise		Crosswise	
	15	30	45	60
10x40	15	30	45	60
10x50	15	30	45	60
10x60	15	30	45	60
10x70	15	30	45	60
10x80	15	30	45	60

WAVELENGTH	INTENSITY	% LIGHT	% PURITY
4-50	1000	26.6	100
4-40	2379	30.5	102
4-30	6056	78.8	135
4-20	9476	78.7	100

LIF-26 LIF-LIGHT LOSS METER LIF-LEDZILL-2F LEO-VIBRO CALIBRATOR CLEVERANCE
LLO-BURNER OF TYPE 2700 LAMP LIFE OF-AE ELECTRIC BALLASTS & LAMP REPLACEMENT AT PPS LAMP LIFE

PHOTOMETRIC DATA

CATALOG # 2LP3GSR2-38A-1/3-FT LAMPS - E83 70

WT 10012-2 90

LER = FP-60

COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = \$1.00 BASED ON 3000 HRS. AND 6.00 PER KWH

FLUORENE EFFICIENCY = 72.2%

CANNILIF-CHUR				
Angle	End	45	60	90
0	1390	7300	2800	2800
10	1397	7250	2810	2810
20	1407	7200	2820	2820
30	1417	7150	2830	2830
40	1427	7100	2840	2840
50	1437	7050	2850	2850
60	1447	7000	2860	2860
70	1457	6950	2870	2870
80	1467	6900	2880	2880
90	1477	6850	2890	2890
100	1487	6800	2900	2900
110	1497	6750	2910	2910
120	1507	6700	2920	2920
130	1517	6650	2930	2930
140	1527	6600	2940	2940
150	1537	6550	2950	2950
160	1547	6500	2960	2960
170	1557	6450	2970	2970
180	1567	6400	2980	2980
190	1577	6350	2990	2990
200	1587	6300	3000	3000
210	1597	6250	3010	3010
220	1607	6200	3020	3020
230	1617	6150	3030	3030
240	1627	6100	3040	3040
250	1637	6050	3050	3050
260	1647	6000	3060	3060
270	1657	5950	3070	3070
280	1667	5900	3080	3080
290	1677	5850	3090	3090
300	1687	5800	3100	3100
310	1697	5750	3110	3110
320	1707	5700	3120	3120
330	1717	5650	3130	3130
340	1727	5600	3140	3140
350	1737	5550	3150	3150
360	1747	5500	3160	3160

ADVERTISED INFORMATION TABLE - Same Foot/Picture*

* 50-50-50 Footcandle (Lighting: 500-500-500)
 * L/P = 0.75 2000 Lumens/Lamp 5000 Lumens
 * At Room Width of 10 ft. Room Height = 8 ft. Room 2 or 1

Room Size L x W of Lamp	Room Width Feet/Inches	Approx. Miles per Hour Per Room			
		50-50-50	100-50-50	150-50-50	200-50-50
3 Lamp 75	8 1	- -	- 150	71 71	50 50
			86 92	37 37	- -

[illegible]

ANGLE	10°	45°	90°
00	9475	4037	4037
09	3382	3004	2831
06	1741	1420	1370
75	180	214	214
05	75	84	75

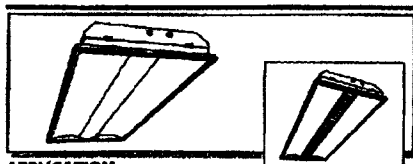
TYPICAL V.C.P.'s				
Beam Size	Mounting Height			
	15	30	45	60
20x20	62	77	94	79
40x40	67	83	98	94
60x60	68	84	99	95
80x80	91	93	91	87
100x100	95	92	86	82

LIGHT DISTRIBUTION			
POSITION	LUMENS	% LAMP	% FLOOR
0-30	1000	22.1	30.6
0-40	8794	20.2	59.9
0-60	8712	20.3	62.6
0-90	6130	12.2	100.0

REF-30 REF=LEAD LINE FACTOR REF=1:00 X L P K M 100-4877 CLIMBING CLEVERLY
ALB-CUT @ 40% NAMED LAMP LIFE REF=26 ELONGATION CALLS AT 7-9 LAMP ON AMP AT 10% LAMP LIFE

253.2-PLV

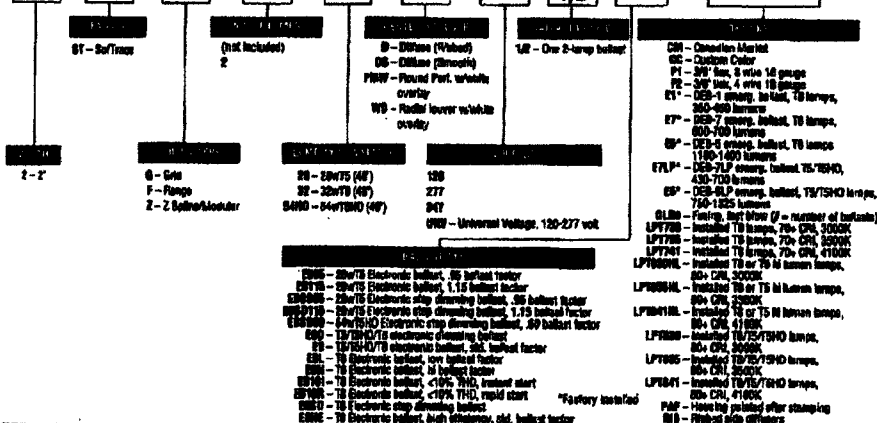
2' x 4' SoftTrace



**2 Lamp
T5, T5HO, or T8**

- Center section is flush with outer panels, eliminating the dirt and debris collection typical of suspended "baskets."
- One-piece enclosure hinges down as an assembly for easy access to lamps and ballasts from below without tools.
- T-hinges provide secure retention of enclosure and eliminate non-captive parts to hold during servicing.
- Guide-post spring loaded latches allow easy opening and closing of the enclosure.
- Choice of center sections includes diffuse acrylic with smooth or ribbed surface, round perforated steel with overlay or white radial louver with overlay.
- Smooth side diffusers standard, ribbed optional.
- Any center section can be used with either side diffuser.

2 ST G 2 32 - D - UNV - 1/2 - EB - F1-LPT835HL



JOB INFORMATION

0169.2-AR

PHILIPS
Day-Brite

2' x 4' Soft Race

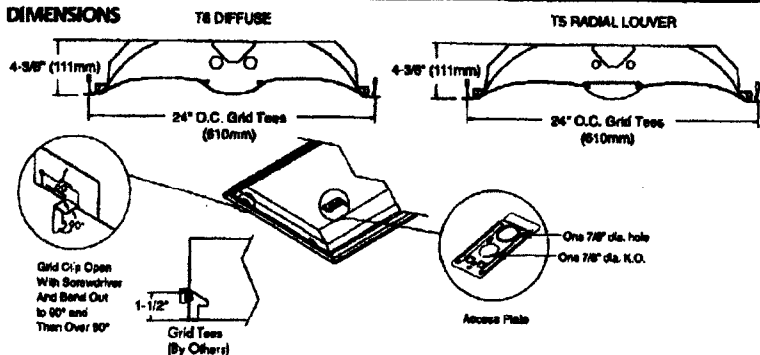
PHILIPS
Day-Etta

ENERGY DATA

Lamp Type	Ballast Type	Input Power (120/277V)	Electrical System Lumens/Watt	
			Std. Lamps*	Hi-Lumen Lamps
28	EB85	80W / 80W	85	100
	EB8D85@H	80W / 58W	85	100
	EB8D85@Lo	28W / 28W	73	76
	EB116	72W / 71W	84	90
	EB8D115@H	72W / 71W	84	90
	EB8D115@Lo	36W / 36W	80	81
32	EB	88W / 84W	85	100
	EB10H	58W / 58W	85	84
	EB10P	58W / 58W	85	84
	EBL	62W / 60W	82	81
	EBL	47W / 47W	82	182
	EBH	77W / 77W	87	97
64HO	EB8D@H	87W / 88W	88	87
	EB8D@Lo	28W / 28W	80	86
	EB	120W / 117W	85	-
	EB8D80@H	90W / 93W	86	-
	EB8D80@Lo	52W / 51W	78	-

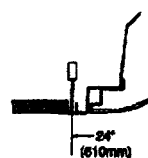
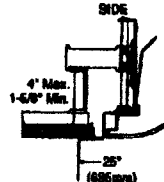
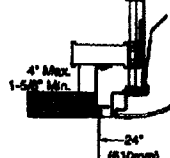
*Standard lamp TS values assume 70+CRI 82W lamp. 80+CRI lamps or energy saving lamps are also available.

DIMENSIONS



2 ST G 2 32

CEILING TYPE

G = GRID (NEMA G)
SIDE(NEMA Type G)
Lay-in acoustical ceilings using exposed grid suspension, with ties for flanges on 24" x 48" spacing.F = FLANGE (NEMA F)
SIDE(NEMA Type F)
Flange for acoustical ceilings using concealed mechanical suspension. Swing-jack mounting brackets: adjustment 4" max. and 1-5/8" min. Refer to sheet 801-C1 for out-out information.Z = (NEMA NZ) MODULAR AND "Z" SPLINE
SIDE(NEMA NZ)
Modular and "Z" Spline using concealed mechanical suspension. Swing-jack mounting brackets: adjustment 4" max. and 1-5/8" min.

0169.2-AR